CLAIM AMENDMENTS:

Please cancel Claims 35 and 36, and amend Claim 30 as follows:

1.-29. (Canceled)

30. (Currently Amended) A color image pickup device formed on a single semiconductor chip comprising:

an image pickup element, including a two-dimensional array of photodetectors each with a respective color filter, and a reading ~~means~~ circuit for randomly accessing said two-dimensional array, to read out analog image data from basic block units, each block unit comprising at least a two by two array of photodetectors;

a block storage ~~means~~ circuit to store analog image data ~~read out~~ sent in parallel by the reading circuit from a target basic block unit of the photodetectors, and from basic block units of photodetectors neighboring the target basic block unit; and

an interpolation ~~means~~ circuit, which is operable upon the image data stored in said block storage means, to perform interpolation for each one of the photodetectors of the target basic block on the basis of the stored analog image data read out from adjacent photodetectors having color filters of the same respective colors; and

a signal processing circuit for receiving analog image data outputted from the interpolation circuit, and for subjecting the analog image data to a processing of at least one of color gain adjustment, low-frequency filtering, and edge enhancement,

wherein the block storage circuit, the interpolation circuit, and the signal processing circuit are formed on one semiconductor chip together with the image pickup element.

31. (Previously Presented) A device according to Claim 30, wherein each basic block unit is formed of 2x2 photodetectors.

32. (Previously Presented) A device according to Claim 31, wherein said color filters are of color red, green, and blue, respectively, and each basic block unit is a 2x2 block of a Bayer matrix.

33. (Previously Presented) A device according to Claim 31, wherein said color filters are of color Cyan, Magenta, Yellow, and Green and each basic block unit is a 2x2 block partition of the basis 4x2 pattern of a complementary color filter array.

34. (Previously Presented) A device according to Claim 31, wherein said block storage means stores image data of 3x3 basis block units.

35. (Cancelled)

36. (Cancelled)